



List of All ECSoE Publications
(Journals / Conferences / Book Chapters / Patents)

Journals

2023

1. **M. A. Khan**, R. Tipireddy, B. Dattaguru, and S. Kumar (2023). Stochastic modeling of functionally graded double-lap adhesive joints. *Mechanics of Materials*, page 104553. ISSN 0167-6636. I.F. 4.137 <https://doi.org/10.1016/j.mechmat.2022.104553>
2. Rupali, Blessy Joseph, Sabu Thomas, Newton Sen, André Paschold, Wolfgang H. Binder and **Sonu Kumar**, "Bioinspired Synthetic Polymers-Based Inhibitors of Alzheimer's Amyloid- β Peptide Aggregation"; *Polymer Chemistry*, 2023, DOI: 10.1039/D2PY01217K

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3. Misra, S., Buehner, N.A., **Singh, A.** et al., "Female factors modulate Sex Peptide's association with sperm in *Drosophila melanogaster*"; *BMC Biol* 20, 279 (2022). <https://doi.org/10.1186/s12915-022-01465-2>
4. Despina Michailidou, Linda Johansson, **Runa Kuley**, Ting Wang, Payton Hermanson, Solbritt Rantapää-Dahlqvist, Christian Lood, "Immune complex-mediated neutrophil activation in patients with polymyalgia rheumatica", *Rheumatology*, 2022; keac722 <https://doi.org/10.1093/rheumatology/keac722>
5. V. Suresh Kumar Lagudu, Duggirala Venkata Naga Ananth & **Sreedhar Madichetty** (2022) Independent control of active and reactive power for grid connected DFIG using reference power based improved field-oriented control scheme, *International Journal of Ambient Energy*, 43:1, 3252-3265, DOI: 10.1080/01430750.2020.1818123
6. Duggirala Venkata Naga Ananth, V Suresh Kumar Lagudu & **Sreedhar Madichetty** (2022) The black-start capability improvement of VSC-based HVDC transmission system using fuzzy-adaptive PI controller, *International Journal of Ambient Energy*, 43:1, 2787-2795, DOI: 10.1080/01430750.2020.1773925
7. **S. Madichetty** and S. Mishra, "Cyber Attack Detection and Correction Mechanisms in a Distributed DC Microgrid," in *IEEE Transactions on Power Electronics*, vol. 37, no. 2, pp. 1476-1485, Feb. 2022, doi: 10.1109/TPEL.2021.3106808.
8. **S. Madichetty**, **A. J. Neroth**, S. Mishra and B. C. Babu, "Route Towards Road Freight Electrification in India: Examining Battery Electric Truck Powertrain and Energy Consumption," in *Chinese Journal of Electrical Engineering*, vol. 8, no. 3, pp. 57-75, September 2022, doi: 10.23919/CJEE.2022.000026.
9. **Nayak, J.**, Basu, A., Dey, P. et al. "Transformation of agro-biomass into vanillin through novel membrane integrated value-addition process: a state-of-art review". *Biomass Conv. Bioref.* (2022). <https://doi.org/10.1007/s13399-022-03283-6>
10. **Dipti Mishra**, Satish Kumar Singh, Rajat Kumar Singh, "Deep CNN based Image Compression with Redundancy Minimization via Attention Guidance", *Neurocomputing*, Volume 507, 2022, Pages 397-411, ISSN 0925-2312, <https://doi.org/10.1016/j.neucom.2022.08.009>
11. Lokeswara Reddy Poreddy, Manoj Kumar Pathapadu, Chereddy Navyatha, **Jayaprakash Vemuri**, Rajaram Chenna, "Correlation analysis between ground motion parameters and seismic damage of buildings for near-field ground motions", *Natural Hazards Research*, Volume 2, Issue 3, 2022, Pages 202-209, ISSN 2666-5921, <https://doi.org/10.1016/j.nhres.2022.08.002>
12. Vivek Kishanlal Bhati and **Debasis Chakraborty**, "Numerical Exploration of Transverse Sonic Jet in Hypersonic Cross-flow", *Journal of Aerospace Sciences and Technologies*, Volume 74, Number 3, pp 143-150, August 2022.
13. Vatsalya Sharma, Vinayak Eswaran, **Debasis Chakraborty**, "Influence of isolator section on the shock augmented mixing in SCRAMJET engine", *Aerospace Science and Technology*, Volume 130, 2022, 107900, ISSN 1270-9638, <https://doi.org/10.1016/j.ast.2022.107900>
14. **Anil Annadi**, **Murtaza Bohra**, Vidyadhar Singh, "Modulations in electrical properties of sputter deposited vanadium oxide thin films: Implication for electronic device applications", *Thin Solid Films*, Volume 758, 2022, 139451, ISSN 0040-6090, <https://doi.org/10.1016/j.tsf.2022.139451>.

15. Pu Mao, Gang Lu, Qingsong Yan, **Anil Annadi**, Yongguang Guo, Zepeng Wang, Zhiyong Liu, Bing Xie, Lixue Zhang, "Electrodes influence on the characterization of the electrical properties of colossal permittivity $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics", *Ceramics International*, 2022, ISSN 0272-8842, <https://doi.org/10.1016/j.ceramint.2022.07.157>.
16. **Abhijit Bhattacharyya**, Tony L. Schmitz, Scott W.T. Payne, **Palash Roy Choudhury**, John K. Schueller, "Introducing engineering undergraduates to CNC machine tool error compensation", *Advances in Industrial and Manufacturing Engineering*, Volume 5, 2022, 100089 <https://doi.org/10.1016/j.aime.2022.100089>
17. Scott W. T. Payne, **Palash Roy Choudhury**, John K. Schueller & **Abhijit Bhattacharyya** "Experimental verification of mechanistic force models for endmilling: the impact of the size effect on cutting coefficients". *The International Journal of Advanced Manufacturing Technology* (2022). <https://doi.org/10.1007/s00170-022-09622-1>
18. **Venugopal, Mandala, Mohd Ataulah Khan and Jayaprakash Vemuri**. "Statistical analyses of hooked-end steel fibers in concrete." *Materials Today: Proceedings* (2022), Volume 61, Part 2, 2022, Pages 286-296, ISSN 2214-7853, CiteScore 2.3. <https://doi.org/10.1016/j.matpr.2021.09.432>
19. **Kishore, Y. S. N., Nadimpalli, S. G. D., Potnuru, A. K., Vemuri, J., & Khan, M. A.** (2022). "Statistical analysis of sustainable geopolymer concrete", *Materials Today: Proceedings*, Volume 61, Part 2, 2022, Pages 212-223, ISSN 2214-7853, CiteScore 2.3. <https://doi.org/10.1016/j.matpr.2021.08.129>
20. **Kailash Kumar Singaram, Mohd Ataulah Khan, V. Talakokula**, "Statistical analysis of fly ash and slag blended geopolymer concrete", *Materials Today: Proceedings*, Volume 61, Part 2, 2022, Pages 466-476. <https://doi.org/10.1016/j.matpr.2021.12.026>
21. **M. A. Khan**, Brian L. Wardle, S Kumar "Elastic solutions for stresses in compliance-tailored adhesive anchors", *International Journal of Adhesion and Adhesives*, article in-press. I.F. 3.848. <https://doi.org/10.1016/j.ijadhadh.2022.103227>
22. Pattabhi Ramaiah Budarapu, Kumar S, **M.A. Khan**, Rammohan B, Cosmin Anitescu "Engineered interphase mechanics in single lap joints: Analytical and PINN formulations," *International Journal of Computational Methods*. MS number: IJCM-D-21-00117-accepted. I.F. 1.734
23. **Jayaprakash Vemuri**, Tariq Anwar, KVL Subramaniam (2022) "Seismic Fragility Assessment of Load-Bearing Soft-Brick Unreinforced Masonry Piers", *Journal of Safety Science and Resilience*, 3(4), JNLSSR-76 <https://doi.org/10.1016/j.jnlssr.2022.05.001>
24. **Shabnam Samima and Tauheed Ahmed**, "FIMBISAE: A Multimodal Biometric Secured Data Access Framework for Internet of Medical Things Ecosystem", *IEEE Internet of Things Journal* (IF: 10.238), (Accepted)
25. Sai Kiran Nalla and **Sebastian Uppapalli**, Effects of Gas embolism on pulsatile blood flow in human carotid artery, *Journal of Biomechanical Engineering* (Accepted, 27/04/2022)
26. **Duddu, S.R., Chennarapu, H.** "Quality control of compaction with lightweight deflectometer (LWD) device: a state-of-art". *Geo-Engineering* 13, 6 (2022). <https://doi.org/10.1186/s40703-021-00171-2>
27. **Chennarapu, H.**, Malapati, K., Mouli, S. and **Sidhu Ramulu**. "The analysis and design of MSE wall by considering variation of friction angle of backfill material along the depth". *Innov. Infrastruct. Solut.* 7, 44 (2022). <https://doi.org/10.1007/s41062-021-00647-1>
28. Timir Karmakar, **Meraj Alam**, G. P. Raja Sekhar, Analysis of Brinkman-Forchheimer extended Darcy's model in a fluid saturated anisotropic porous channel, *Communications on Pure and Applied Analysis* Vol: 23(3) (2022); 845-865, (SCIE, Impact Factor: 1.916) (ISSN: 1534-0392). DOI: <http://dx.doi.org/10.3934/cpaa.2022001>.
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30. **S. Raghunathan**, and U. D. Priyakumar, "Molecular representations for machine learning applications in chemistry", *Int J Quantum Chem.* 122, e26870 (2022) <https://doi.org/10.1002/qua.26870>
31. Yuvaraj Dhandapani, **Talakokula Visalakshi** et al., "Durability performance of binary and ternary blended cementitious systems with calcined clay: a RILEM TC 282 CCL review", *Materials and Structures journal*, 55, 145 (2022) Impact Factor: 3.427; <https://doi.org/10.1617/s11527-022-01974-0>
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34. Oruganti, Raj Kumar, **Keerthi Katam**, Pau Loke Show, Venkataramana Gadhamshetty, Venkata Krishna Kumar Upadhyayula, and Debraj Bhattacharyya. "A comprehensive review on the use of algal-bacterial systems for wastewater treatment with emphasis on nutrient and micropollutant removal." *Bioengineered* 13, no. 4 (2022): 10412-10453. (Impact Factor: 3.269)
35. **Avinash Gupta** and **Kunnath Ranjith**, "Stability of steady frictional sliding at an interface between two elastic layers", *Mechanics of Materials*, 172, 104382 (2022).
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37. **Arun Jana, Shreeya Rane, Palash Roy Choudhury** and **Dibakar Roy Chowdhury**, "External Bias Dependent Dynamic Terahertz Propagation through BiFeO₃ Film", *Nanotechnology Journal*, Vol. 33, No. 32, 17 May 2022. DOI: <https://doi.org/10.1088/1361-6528/ac6bb2>
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41. **S. Madichetty**, Y. V. S. Manoj, S. A. Kareem and S. Mishra, "A Novel High-Speed Sensorless Faulty Panel Detection Technique for an SPV String/Array: An accurate and cost-effective approach for SPV industry," in *IEEE Power Electronics Magazine*, vol. 9, no. 1, pp. 33-39, March 2022, doi: 10.1109/MPPEL.2022.3140985.
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43. **Sanjukta Das** "Exact controllability and continuous dependence of solution of a conformable fractional control system" *Mathematical Analysis and its Contemporary Applications* (2022); doi: 10.30495/maca.2022.1947815.1042
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47. Kadali, B.R., Shantanu, I., Kannan, I. and **Subbarao, SSV.** (2021). "User perception towards ride-hail service: A case of Nagpur city, India". *Journal of European Transport*, Issue no. 84 (2), December 2021, <https://doi.org/10.48295/ET.2021.84.2>
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Journal of Smart Materials and Structures, Vol. 31, 015036, <https://doi.org/10.1088/1361-665X/ac3d6f>; Impact factor: 3.585

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51. Sukhvinder Kaur, Subhajit Karmakar, **Arun Jana**, Ravendra Kumar Varshney and **Dibakar Roy Chowdhury** "Hybridization of Dark Resonant States in Terahertz Metasurfaces", Journal of Applied Physics 130, 243101 (2021); <https://doi.org/10.1063/5.0075452>
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5. **Bompelly R.**, and **Pokkunuri P.**, "Numerical Prediction of NO_x Emissions from Industrial Burners". Accepted to 27th National Conference on Internal Combustion Engines and Combustion (NCICEC 2021), to be held 04 - 11 November, 2022 at VIT, Vellore
6. **Sreejan Alapati, Deep Seth**, "Testing of Different Strings for their Usability in Actuation of Exosuits", HCII2022, (Accepted for publication)
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8. **Deepti Avirneni, Abhishek Kumar Bondada** and **Semanth Reddy Bommu**, (2022), "Investigating Mechanical and Hydraulic Properties of Porous Concrete Pavements", 2nd International Conference on Transportation Infrastructure Projects: Conception to Execution, Transportation Engineering Group, Department of Civil Engineering, IIT Roorkee. (Accepted)
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